UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|------------------------|----------------------|----------------------|---------------------|------------------|--|
| 10/541,238 | 01/30/2006 | Yukihiro Orimoto | 107348-00493 | 4979 | |
| 4372 ARENT FOX L | 7590 09/10/200 LP | 8 | EXAMINER | | |
| | TICUT AVENUE, N. | FLEMING, FAYE M | | | |
| SUITE 400 WASHINGTO | N, DC 20036 | | ART UNIT | PAPER NUMBER | |
| | | | 3616 | | |
| | | | | | |
| | | | NOTIFICATION DATE | DELIVERY MODE | |
| | | | 09/10/2008 | ELECTRONIC | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DCIPDocket@arentfox.com IPMatters@arentfox.com Patent_Mail@arentfox.com

| Office Action Summary | | Application No. | Applicant(s) | Applicant(s) | | | |
|--|--|--|--|----------------|--|--|--|
| | | 10/541,238 | ORIMOTO ET AL | ORIMOTO ET AL. | | | |
| | | Examiner | Art Unit | | | | |
| | | Faye M. Fleming | 3616 | | | | |
| Period fo | The MAILING DATE of this communication ap or Reply | opears on the cover sheet with | the correspondence ac | idress | | | |
| WHIC - Exter after - If NC - Failu Any (| ORTENED STATUTORY PERIOD FOR REPLEMENTED IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing datent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS COMMUNIC. .136(a). In no event, however, may a report will apply and will expire SIX (6) MONT te, cause the application to become ABA | ATION. Oly be timely filed HS from the mailing date of this of NDONED (35 U.S.C. § 133). | · | | | |
| Status | | | | | | | |
| 1)[\ | Responsive to communication(s) filed on 19 | May 2008 | | | | | |
| · · | | is action is non-final. | | | | | |
| ′= | , — · · · · · · · · · · · · · · · · · · | | | | | | |
| ٥,١ | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Dispositi | on of Claims | | | | | | |
| - | | ication | | | | | |
| | ☑ Claim(s) <u>1 and 4-7</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | |
| | | awn from consideration. | | | | | |
| • | 5) Claim(s) is/are allowed. 6)⊠ Claim(s) <u>1 and 4-7</u> is/are rejected. | | | | | | |
| | Claim(s) is/are objected to. | | | | | | |
| • | Claim(s) is are subjected to: Claim(s) are subject to restriction and/ | or election requirement | | | | | |
| ا ا | are subject to restriction and | or election requirement. | | | | | |
| Applicati | on Papers | | | | | | |
| 9) | The specification is objected to by the Examir | ner. | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner. | | | | | | | |
| | Applicant may not request that any objection to the | e drawing(s) be held in abeyanc | e. See 37 CFR 1.85(a). | | | | |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). | | | | | | | |
| 11) | 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. | | | | | | |
| Priority ι | ınder 35 U.S.C. § 119 | | | | | | |
| a)[| Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures See the attached detailed Office action for a lis | nts have been received. nts have been received in Ap ority documents have been r au (PCT Rule 17.2(a)). | plication No eceived in this National | Stage | | | |
| 2) Notic 3) Inform | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | Paper No(s) | Immary (PTO-413) /Mail Date ormal Patent Application - | | | | |

Application/Control Number: 10/541,238 Page 2

Art Unit: 3616

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Rumpel (4,456,282).

Rumpel discloses a vehicular suspension system in which the lower end of a coil spring 31 is supported on a suspension arm 20 that vertically movably supports a knuckle 28 and the upper end of the coil spring 31 is supported on a vehicle body 10, the lower end of the coil spring 31 is lower than a support part 40 where the suspension arm 20 is supported on the vehicle body 10, and the lower end of the coil spring 31 is on the laterally inner side of the vehicle relative to the upper end of the coil spring 31. A vehicular suspension system in which the lower end of a coil spring 31 is supported on a suspension arm 22 that vertically movably supports a knuckle 28 and the upper end of the coil spring is supported on a vehicle body 10, the angle formed by a spring seat 74 supporting the upper end of the coil spring 31 and a spring seat 30 supporting the lower end of the coil spring 31 at a time of maximum rebound of a wheel 12 supported by the knuckle 28 is equal to or less than the angle formed by the spring seat 74 supporting the upper end of the coil spring 31 and the spring seat 30 supporting the lower end of the coil spring 31 at a time of maximum bump. A straight line running through the centers of the two spring seats 30, 74 is orthogonal to the two spring seats. Rumpel teaches a shock absorber 26 having a lower end disposed coaxially with the coil spring.

Application/Control Number: 10/541,238 Page 3

Art Unit: 3616

3. Claims 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Lambert

(0505282).

maximum rebound.

Lambert discloses vehicular suspension system comprising a suspension arm 1 that vertically movably supports a knuckle 3 and a coil spring 4 having opposite ends supported in a lower spring seat (not shown) on the suspension arm and in an upper spring seat 10 on a vehicle body wherein the coil spring has a middle body section that is curved along an axis between centers of the lower spring seat and upper spring seat when no load other than the vehicle body weight is applied to the spring, see figure 1. With respect to claim 6, the method of forming the device is not germane to the issue of patentability of the device itself. Therefore, this limitation has not been given patentable weight. A straight line running through centers of the upper and lower spring seats is orthogonal relative to the upper and lower spring seats during the time of

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rumpel (4,456,282) in view of Satou, et al. (5,702,102).

Rumpel discloses the claimed invention except for the knuckle rotating rearward when the rear wheel rebounds. Satou discloses the rear suspension of a vehicle wherein a knuckle

rotates rearward when the wheel rebounds (col. 7, lines 6-27). Based on teachings of Satou, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Rumpel to have the knuckle rotate rearward to provide an improved suspension.

Response to Arguments

6. Applicant's arguments filed May 19, 2008 have been fully considered but they are not persuasive. In response to applicant's arguments that the lower end of the coil spring 31 on the suspension arm 22 is not lower than the support part 36, the examiner notes the coil spring 31 on the suspension arm 22 is lower than the *support part 40* as described above, therefore the lower end of the coil spring is lower than a support part 40 where the suspension arm is supported on the vehicle body when no load other than the vehicle body weight is applied to the coil spring. Further, the prior art clearly teaches the claimed structure of the present invention.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Application/Control Number: 10/541,238 Page 5

Art Unit: 3616

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Faye M. Fleming whose telephone number is (571) 272-6672. The examiner can normally be reached on M-F (9:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lesley Morris can be reached on (571) 272-6651. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Faye M. Fleming/ Primary Examiner, Art Unit 3616